



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**Mobile Fleet**  
Machine Id  
**5001 5001**  
Component  
**Right Final Drive**  
Fluid  
**MOBIL MOBILUBE XFD 60 (6 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0956039</b>	WC0867149	WC0808965
Sample Date		Client Info		<b>11 Jul 2024</b>	19 Oct 2023	23 May 2023
Machine Age	hrs	Client Info		<b>21151</b>	20016	19289
Oil Age	hrs	Client Info		<b>3693</b>	2558	1831
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	ABNORMAL	ATTENTION

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>800	<b>146</b>	106	93
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>2</b>	2	1
Titanium	ppm	ASTM D5185m	>15	<b>4</b>	4	3
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>75	<b>7</b>	5	8
Lead	ppm	ASTM D5185m	>10	<b>1</b>	2	0
Copper	ppm	ASTM D5185m	>75	<b>10</b>	9	7
Tin	ppm	ASTM D5185m	>8	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

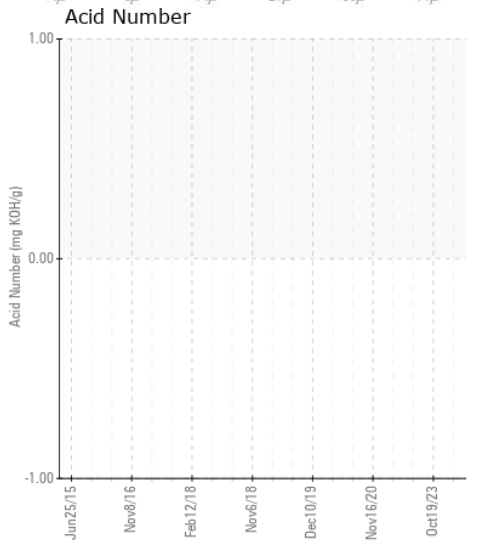
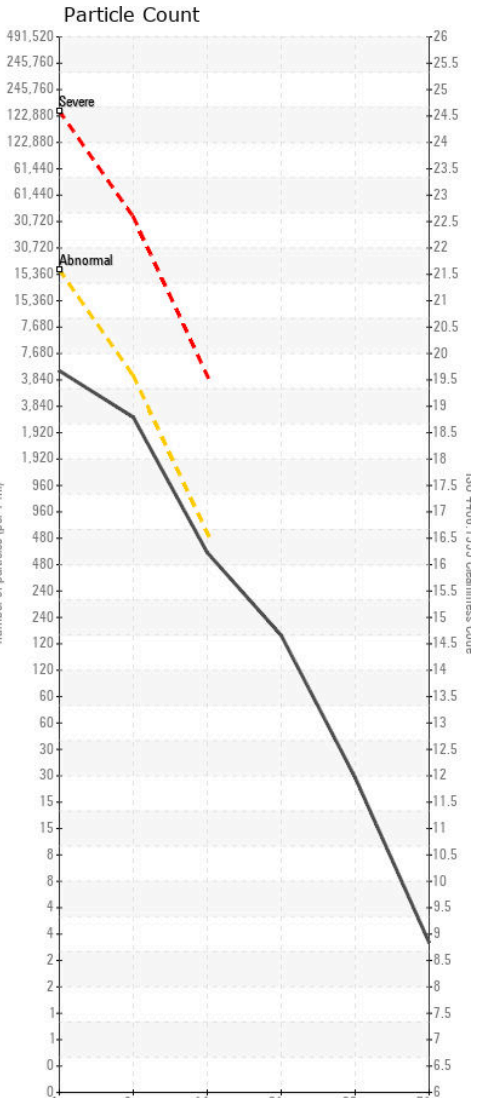
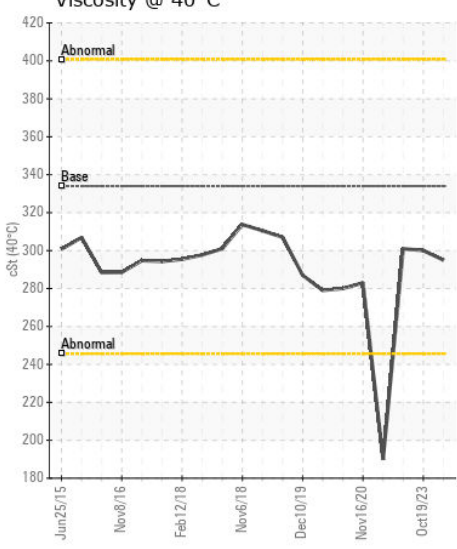
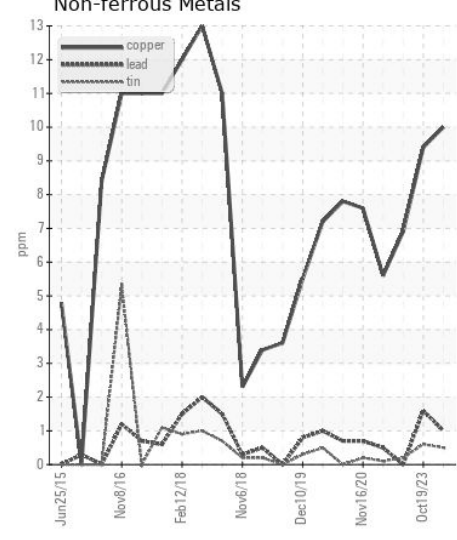
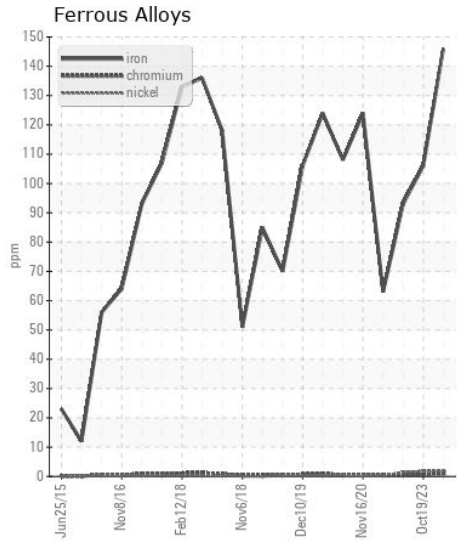
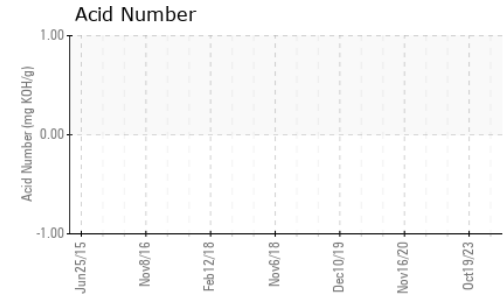
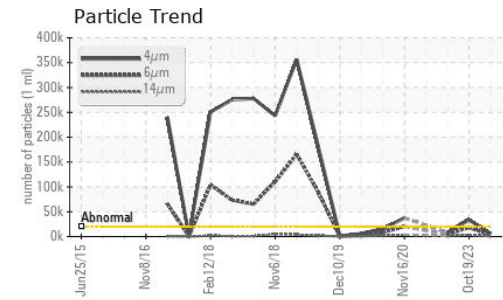
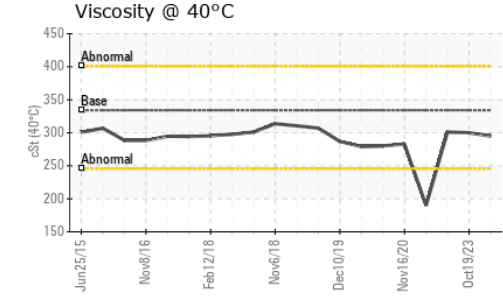
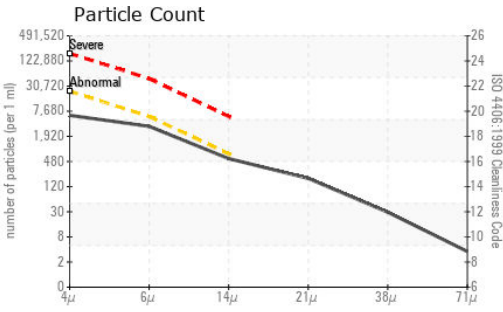
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>400	<b>45</b>	40	36
Potassium	ppm	ASTM D5185m	>20	<b>11</b>	11	8
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>5333</b>	▲ 33346	8056
Particles >6µm		ASTM D7647	>5000	<b>2905</b>	▲ 18165	4389
Particles >14µm		ASTM D7647	>640	<b>494</b>	▲ 3092	● 747
Particles >21µm		ASTM D7647	>160	<b>167</b>	▲ 1041	● 252
Particles >38µm		ASTM D7647	>40	<b>26</b>	▲ 161	39
Particles >71µm		ASTM D7647	>10	<b>3</b>	▲ 16	4
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>20/19/16</b>	▲ 22/21/19	● 20/19/17
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>6</b>	6	9
Boron	ppm	ASTM D5185m		<b>121</b>	113	101
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	10	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>1</b>	1	1
Magnesium	ppm	ASTM D5185m		<b>8</b>	8	7
Calcium	ppm	ASTM D5185m		<b>410</b>	422	414
Phosphorus	ppm	ASTM D5185m		<b>340</b>	366	357
Zinc	ppm	ASTM D5185m		<b>56</b>	60	47
Sulfur	ppm	ASTM D5185m		<b>11926</b>	11291	13786
Visc @ 40°C	cSt	ASTM D445	334	<b>295</b>	300	301



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0956039 **Received** : 15 Jul 2024  
**Lab Number** : 06235747 **Tested** : 16 Jul 2024  
**Unique Number** : 11124581 **Diagnosed** : 16 Jul 2024 - Don Baldridge  
**Test Package** : CONST ( Additional Tests: PrtCount )

**CAROLINA SUNROCK**  
 PO BOX 25  
 BUTNER, NC  
 US 27509  
 Contact: Leigh Dennis  
 rdennis@thesunrockgroup.com  
 T: (919)575-4505  
 F: (919)575-0162

Certificate L2367  
 To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)